KHRUSTALEV, I.K., dots.

Efficient shape of skips for coal mines with vertical shafts.
Izv.vys.uchob.zav.; gor.zhur. no.1:109-115 '59.
(MIRA 13:1)

1. Sibirskiy metallurgicheskiy institut. Rekomendovana kafedroy
gornoy elektromekhaniki.
(Mine hoisting)

KHRUSTALEV, I.K., dots.

Performance of unbalanced skip hoisting equipment with
asynchronous electric drives. Izv.vys.ucheb.zav.; gor.zhur.
no.1:116-125 '59.   (MIRA 13:1)

1. Sibirskiy metallurgicheskiy institut. Rekomendovana kafedroy
gornoy elektrotekhniki.
              (Hoisting machinery—Electric driving)

KHRUSTALEV, I.K.

Automatic skip hoist. Izv.Sib.otd.AN SSSR no.10:37-48 '59.
(MIRA 13:4)

1. Sibirskiy metallurgicheskiy institut, g. Stalinsk.
(Mine hoisting)

KHRUSTALEV, I.K., dotsent

Acceptable speed for the landing of skip hoisting machines on the carriage of a coal loader. Izv. vys. ucheb. zav.; gor. zhur. no. 11:187-192 '60.   (MIRA 13:12)

1. Sibirskiy metallurgicheskiy institut imeni S. Ordzhonikidse. Rekomendovana kafedroy gornoy elektrotekhniki Sibirskogo metallurgicheskogo instituta.
           (Coal mines and mining--Equipment and supplies)
                   (Hoisting machinery)

KHRUSTALEV, I.K., dotsent

Mine resistances in the operation of hoists. Izv. vys. ucheb. zav.; gor. zhur. 5 no.1:165-169 '62.   (MIRA 15:4)

1. Sibirskiy metallurgicheskiy kombinat imeni S. Ordzhonikidze Rekomendovana kafedroy gornoy elektrotekhniki Sibirskogo metallur-gicheskogo instituta.

(Mine hoisting)

KHRUSTALEV, I.K., kand. tekhn. nauk

Profitableness of skip hoisting equipment for hydraulic coal mines. Trudy VNIIGidrouglia no.3:128-137 '63 (MIRA 18:2)

1. Sibirskiy metallurgicheskiy institut.

KHRUSTALEV, I.K., dotsent; KUZNETSOV, N.Ye., dotsent; TURNAYEV, P.I., inzh.

Automatic drive of mine hoisting machines with electromagnetic clutches. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:180-184 '65.
(MIRA 18:9)

1. Sibirskiy metallurgicheskiy institut imeni Ordzhonikidze. Rekomendovana kafedroy obshchey elektrotekhniki Sverdlovskogo gornogo instituta.

KHRUSTALEV, L.N.

Forecasting changes in the temperature regime of grounds
frozen for many years in a built-up territory. Mat k uch.
o merz. zon. zem. kory no.9:13-28 '63   (MIRA 18:1)

BAKALOV, S.A.; BELOUSOV, V.P.; BRATSEV, L.A.; VODOLAZKIN, V.M.;
    YEROSHENKO, V.N.; ZHUKOV, V.F.; LUBAN, S.A.; MARKIZOV, L.P.;
    NADEZHDIN, A.V.; NOVIKOV, F.Ya.; PONOMAREV, V.D.; POTRASHKOV,
    G.D.; ROZHDESTVENSKIY, S.I.; TROFIMOV, S.V.; FEL'DMAN, I.R.;
    FOYGEL', D.O.; KHRUSTALEV, L.N.; CHURUKSAYEV, I.I.;
    KONDRAT'YEVA, V.I., red.

[Theory and practice in the study of frozen ground in construc-
tion] Teoriia i praktika merzlotovedeniia v stroitel'stve. Mo-
skva, Nauka, 1965. 187 p.   (MIRA 18:4)

1. Moscow. Nauchno-issledovatel'skiy institut osnovaniy i pod-
zemnykh sooruzheniy. Severnoye otdeleniye.

KHRUSTALEV, L. N.

Permeability of clay soils in a layer of seasonal freezing and thawing under in situ conditions. Trudy SOIM no.2:82-87 '62.   (MIRA 17:1)

POTRASHKOV, G.D.; KHRUSTALEV, L.N.

Effect of the texture of thawed clay soils on their strength and infiltration properties. Izv.Sib.otd.AN SSSR no.1:31-35 '61.
(MIRA 14:2)

1. Severnoye otdeleniye Instituta merzlotovedeniya im.V.A.Obrucheva AN SSSR.

(Clay)

KHRUSTALEV, L.N.

Filtration characteristics of seasonally thawing loamy ground
in the Vorkuta region. Mat. k osn. uch. o merz. zon. zem.
kory no.7:157-163 '61.   (MIRA 14:7)
                    (Vorkuta region—Frozen ground)
                    (Soil percolation)

GALAKTIONOV, A.T.; DENISOV, Yu.A.; KOPYTOV, G.T.; MASLOV, Yu.A.; NIKONOV,
I.P.; PETUNIN, I.V.; KOCHEVA , G.N.; KUZNETSOV, A.P.; LELEKO,
N.M.; RAZIKOV, M.I.; SPESHKOV, V.V.; STEPANOV, B.V., STEPANOV,
V.V.; kand. tekhn. nauk; SHELOMOV, B.Ye.; YUNYSHEV, G.P.; YES'KOV,
K.A., dots., retsenzent; BAKSHI, O.A., dots., retsenzent; BEREZKIN,
P.N., dots., retsenzent; PATSKEVICH, I.R.,dots., retsentzent;
RUDAKOV, A.S., dots., retsenzent; FIZHBEYN, N.B., inzh., retsen-
zent; KHRUSTALEV, L.Ya., inzh., retsenzent; KRUTIKHOVSKIY, V.G.,
inzh., red. BOBROV, Ye.I., kand. tekhn. nauk, red. DUGINA, N.A.,
tekhn. red.

[Welding handbook] Spravochnik rabochego-svarshchika. Pod red.
V.V.Stepanova. Moskva, gos. nauchno-tekhnizd-vo mashinostroit.
lit-ry, 1960. 640 p.   (MIRA 14:6)
                        (Welding)

KHRUSTALEV, Leonid Yakovlevich; RAZIKOV, M.I., kand. tekhn. nauk,
retsenzent; DENISOV, Yu.A., inzh., red.; DUGINA, N.A., tekhn.
red.

[Automatic arc welding and hard facing]Avtomaticheskaia dugo-
vaia svarka i naplavka. Moskva, Mashgiz, 1961. 43 p. (Nauchno-
populiarnaia biblioteka rabochego-svarshchika, no.11)

(MIRA 15:3)

(Electric welding)   (Hard facing)

KHRUSTALEV, M. I., Candidate of Tech Sci (diss) -- "Fractionation of natural sands for concrete, using hydraulic classifiers". Moscow, 1959. 11 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 130 copies (KL, No 21, 1959, 117)

KHRUS IALEV, M.I.

10(4)
AUTHOR: Rozinoer, S.I., Chairman

TITLE: Conference on Scientific Research in the Field of
          Hydromechanics

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 7, pp
             62-65 (USSR)

Card 4/6

Card 5/6

ASSOCIATION: (Conference Organizing Committee) Orgkomitet po
              provedeniyu soveshchaniya

KHRUSTALEV, Mikhail Ivanovich, kand.tekhn.nauk, starshiy nauchnyy
sotrudnik; PERFILOV, I.F., inzh., red.

[Using hydraulic classifiers in fractionating sand and removing
clayey particles] Fraktsionirovanie peskov i udalenie iz nikh
glinistykh chastits pri pomoshchi gidravlicheskikh klassifikatorov.
Moskva, Gosstroiizdat, 1960. 35 p.   (MIRA 13:4)

1. Akademiya stroitel'stva i arkhitektury SSSR, Moscow. Institut
organizatsii, mekhanizatsii i tekhnicheskoi pomoshchi stroitel'stvu.
2. Nauchno-issledovatel'skiy institut zhelezobetona Glavmospron-
stroymaterialov (for Khrustalev).
          (Sand)   (Hydraulic machinery)

KHRUSTALEV, M.I., kand.tekhn.nauk

Hydraulic design of vertical classifiers with a rising flow of
clear water. Sbor. trud. NIIZHelezobetona no.3:50-68 '60.
(MIRA 15:2)

(Mineralogy—Classification)

KORNEV, N.V., inzh.; KHRUSTALEV, M.I., kand.tekhn.nauk

Comparative tests of hydraulic sand and hydroseparators. Sbor. trud.
VNIINerud no.2:20-36 '62.   (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'-
nykh materialov i gidromekhanizatsii (for Kornev). 2. Gosudarstvennyy
nauchno-issledovatel'skiy institut zhelezobetonnykh izdeliy, stroitel'-
nykh i nerudnykh materialov (for Khrustalev).
     (Separators (Machines)—Testing)
          (Sand and gravel plants—Equipment and supplies)

VOLKOV, Valentin Georgiyevich, inzh.; YELSHIN, Igor' Mikhaylovich,
kand. tekhn. nauk; KHARIN, Arnol'd Ivanovich, kand. tekhn.
nauk; KHRUSTALEV, Mikhail Ivanovich, kand. tekhn. nauk;
GUREVICH, E.A., red.

[Enriching and fractionating natural sand for concrete by
the hydraulic method] Obogashchenie i fraktsionirovanie
prirodnykh peskov dlia betona gidravlicheskim sposobom.
Moskva, Stroiizdat, 1964. 162 p.   (MIRA 18:1)

TSAREVSKIY, A.M., kand.tekhn.nauk; MATKOVSKIY, K.A., inzh.; KHRUSTALEV, M.I.,
     kand.tekhn.nauk

        Hydrocyclone, its use and hydraulic calculations. Gidr. i mel. 17
        no.4:12-20 Ap '65.   (MIRA 18:5)

        1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki
        i melioratsii imeni A.N.Kostyakova (for TSarevskiy, Matkovskiy).
        2. TSentral'nyy nauchno-issledovatel'skiy institut transportnogo
        stroitel'stva.

KHRUSTALEV, M.N.

Mass production of gaskets for pipes. Vod. i san.tekh. no.10:
36-37 O '56.   (MLRA 10:2)

(Gaskets)

KHRUSTALEV, M.V., deputat Verkhovnogo Soveta Belorusskoy SSR

Everything for mankind. Zhil.-kom. khoz. 11 no.12:4 D '61.
(MIRA 16:11)

1. Pervyy sekretar' Gomel'skogo gorodskogo komiteta Kommunisti-
cheskoy partii Sovetskogo Soyuza.

REPIN, Anatoliy Aleksandrovich; KHRUSTALEV, Nikolay Vladimirovich;
    KEM, Aleksandr Yegorovich; SVET, Ye.B., red.; KUZNETSOVA,
    O.Ya., tekhn. red.

    [Anticorrosive acid-resistant materials and coatings in
    industrial construction in the Urals] Antikorroziinye
    kislotoupornye materialy i pokrytiia v promyshlennom
    stroitel'stve Urala. Cheliabinsk, Cheliabinskoe knizh-
    noe izd-vo, 1963. 154 p.   (MIRA 17:1)
        (Ural Mountain region--Industrial buildings)
            (Corrosion-resistant materials)
                (Protective coatings)

KHRUSTALEV, N. Ya.

20685. Nichiporovich, A.A. i Khrustalev, N. Ya. O raschete ustoychivostii plotin na neskal'nykh osnovaniyakh – Gidrotekhn. stroit-vo, 1949, No. 6, s. 6-11

SO: LETOPIS ZHURNAL STATEY – Vol. 28, Moskva, 1949

KHRUST'LEV, N. YA.

NICHIPOROVICH, A.A., professor; KHRUSTALEV, N.Ya., kandidat tekhnicheskikh nauk; LAGAR'KOV, N.I., inzhener, nauchnyy redaktor; SAFONOV, P.V., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Strength of concrete hydraulic structures built on rockless soils]
Ustoichivost' betonnykh vodopodpornykh sooruzhenii na neskal'nykh gruntakh. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957.
189 p.
(MLRA 10:10)

(Concrete construction)

KHRUSTALEV, N.Ya., kand.tekhn.nauk

Study of the effect of vibrated loads on the resistance to
dispalcement of water works constructed on sandy soil. Trudy.
Lab. gidr.sooruzh. VODGEO no. 4:124-152 '63.   (MIRA 17:6)

24.3600 (1144, 1385, 1482)

29296   S/051/61/011/004/001/004
E032/E514

AUTHORS: Zastavenko, L.G. and Khrustalev, O.A.

TITLE: Application of the interference of quantum levels
            to the determination of the lifetimes of optical
            transitions

PERIODICAL: Optika i spektroskopiya, v.11, no.4, 1961, 441-444

TEXT: The authors discuss the determination of the natural
level width from the measured intensity of resonance scattering of
light through a given angle as a function of external fields
applied to the scattering medium. Two cases are considered,
namely 1) electric and magnetic fields parallel, and 2) the case
where the excited state levels of the scattering atom are split by
the interaction between the electrons and the nuclear spin, and the
scattering system is located in an external magnetic field.
In the absence of external fields the differential scattering
cross-section is given by

$$W = \left| \sum_{m=-j}^{j} A_m \right|^2 \qquad (1)$$

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where j is the angular momentum, m is its z-component and
A_m is the resonance scattering amplitude. In a strong magnetic
field each term splits into $2j + 1$ levels, which are located
symmetrically relative to the level $m = 0$.   Here the cross-section
is given by

$$W = \sum_{m=-j}^{j} \left| A_m \right|^2 \qquad (3)$$

If in addition a magnetic field is applied in the direction of
the z-axis, the levels with z-components m and -m are equally
shifted and the fields can be chosen so that some of the levels
with different m will coincide, i.e. $E_{m_1} = E_{m_2}$ when $m_1 \neq m_2$.

This will give rise to interference so that the cross-section
becomes

$$W = \left| A_{m_1} + A_{m_2} \right|^2 - \left| A_{m_1} \right|^2 - \left| A_{m_2} \right|^2 + \sum_{m=-j}^{j} \left| A_m \right|^2 \qquad (4)$$

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Application of the interference ...

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With a constant electric field, the curve representing the
resonance scattering as a function of the magnetic field consists
of horizontal sections with narrow extrema corresponding to the
partial overlap of levels with different m
(Ref.2: L. G. Zastavenko, M.I. Podgoretskiy, ZhETF, 39, 1023, 1960).
In the simple case where only two levels with energies E_1 and E_2
interfere, the intensity of the scattered light in the neighbourhood
of these extrema is given by

$$\frac{W}{W_o} = 1 + \frac{2\mathrm{Re}(AB^*) - 2\mathrm{Im}\ \dfrac{(AB^*)\tau(E_1 - E_2)}{h}}{W_o\left\{1 + \left[\dfrac{\tau(E_1 - E_2)}{h}\right]^2\right\}}$$

where W_o is the intensity well away from the extremum and
A and B depend on the properties of the levels, the polarization
of the light and the angle of scattering. For given angles and
polarizations, the quantities A and B have the same phase and

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Application of the interference ...   S/051/61/011/004/001/004
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the intensity near an extremum is given by

$$\frac{W}{W_0} = 1 + \frac{2\,|AB|}{W_0\left[1 + \dfrac{\tau^2(E_1 - E_2)^2}{h^2}\right]} \qquad (6)$$

The width of this curve depends solely on the natural width of the
line and the g-factor.   It follows that it can be used to
determine the lifetime τ. Moreover, it can be shown that the
situation is not affected by the Doppler frequency shift due to
the motion of the atoms. The second of the above two cases is not
discussed in its general form altHough a formula is derived for
the special case of five coincident levels when H →0.   There are
1 figure and 4 references: 3 Soviet and 1 non-Soviet. The
English-language reference reads as follows: Ref.3: F.D.Colegrove,
P.A.Franken, R.R.Lewis and R.N.Sands, Phys.Rev.Lettr., 3,420,1959.
The work was done on the initiative of M. I. Podgoretskiy.
SUBMITTED: December 3, 1960

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35563
S/056/62/042/003/019/049
B102/B138

24.6610

AUTHORS: Okonov, E. O., Podgoretskiy, M. I., Khrustalev, O. A.

TITLE: Gravitational masses of K^0 and $\overline{K}^0$ mesons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 3, 1962, 770 - 771

TEXT: In connection with the problem of "antigravitation" an experiment is considered to determine the up - down deviation of $\overline{K}^0$ and K^0 mesons contained in a horizontal K_2^0 meson beam. Such a deviation of the order of magnitude of de-Broglie wavelength should exist if the gravitational mass of K^0 is negative. Estimates of the possible effects show, however, that they are too weak to be detectable. E. g. for the inert mass ratio $|M(K^0)-M(\overline{K}^0)|/M \leq 10^{-17}$ is obtained. D. I. Blokhintsev, V. I. Veksler, V. A. Nikitin, V. I. Ogiyevetskiy, L. B. Okun', B. M. Pontekorvo, Ya. A. Smorodinskiy and I. Ye. Tamm are thanked for discussions. There are 10 references: 5 Soviet and 5 non-Soviet. The four most recent references to English-language publications read as follows: L. Schiff. Proc. Nat.

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Gravitational masses ...

S/056/62/042/003/019/049
B102/B138

Acad. Sci. 45, 69, 1959; M. Good. Phys. Rev. 121, 311, 1961; M. Bardon et al. Phys. Rev. 110, 780, 1958; D. Neagy et al. Proc. of the 1960 Ann. Int. Conf. on High Energy Phys. at Rochester., Univ. of Rochester, 1960, p. 603.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research))

SUBMITTED: January 10, 1961

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PODGORETSKIY, M.I.; KHRUSTALEV, O.A.

Interference phenomena in quantum transitions. Usp. fiz. nauk 81
no.2:217-247 O '63. (MIRA 16:12)

AUTHORS: Solov'yev, L. D., Khrustalev, O. A.

TITLE: Infrared singularities and Regge trajectories in
              electrodynamics

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,
              no. 2, 1963, 758-760

TEXT: The consequence of a dispersion relation (L.D. Solov'yev, ZhETF,
44, 306, 1963) for photon-electron scattering over a Regge trajectory
for the electron-positron-interaction is discussed theoretically along
with a generalization of this consequence for the case of particles with
unequal masses. The matrix element M_λ for photon-electron scattering,
which results from inserting a photon "mass" $\sqrt{\lambda}$ into the Green photon
function, can be written $M_\lambda = \exp\left[F(t)\right]M$, where

$$F\left((p'-p)^2\right) = \frac{i\alpha}{8\pi^2}\int \frac{dk}{k^2-\lambda}\left(\frac{2p'-k}{2p'k-k^2} - \frac{2p-k}{2pk-k^2}\right)^2, \quad (2)$$

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$$M = \sum_{b=s,\,u} \frac{A_b}{b-m^2} \exp\left[\beta(t)\ln\frac{m^2-b}{m^2} + \gamma(t)\right] + M_a. \qquad (3)$$

$$\beta(t) = \frac{\alpha}{\pi} t \int_{4m^2}^{\infty} \frac{t'-2m^2}{\sqrt{t'(t'-4m^2)}} \frac{dt'}{t'(t'-t-i\epsilon)} \qquad (4).$$

In these equations, s, u, and t denote the Mandelstam variables for the direct, crossed and third channel, respectively, and α is the fine structure constant. The first term in equation (3) is for large s a term of the Regge type with an exponent $\alpha(t) = -1 + \beta(t)$, which is represented in the figure. The Regge equation $\alpha(t) = 1;\ 1 = 0, 1, 2, \ldots$ determines bound states in the t-channel, i.e. the electron-positron system. It has solutions only for $0 < t < 4m^2$ where

$$\alpha(t) = -1 + \frac{\alpha}{\pi}\left[1 + \frac{2t-4m^2}{\sqrt{t(4m^2-t)}} \arctan \sqrt{\frac{t}{4m^2-t}}\right] \qquad (7)$$

These results are generalized for the case of particles with unequal

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masses using dimensional analysis. If a particle with charge ze, mass m and initial and final momenta p and p' reacts with a particle correspondingly characterized by Ze, M, P, and P', the bound states of these particles are found by studying the asymptotic behavior of the scattering matrix element M_λ for $t \to \infty$, which must contain a term $t^{-1}(t/\lambda)^{\beta(s)}$.

Thus, in order to determine $\beta(s)$, it is sufficient to consider the infrared peculiarities of M_λ. From this, the Regge exponent $\alpha(s)$ is derived, which is equal to

$$\alpha(s) = -1 + \frac{\alpha}{\pi}\left[1 + 2\frac{s - m^2 - M^2}{\sqrt{-k(s)}} \, \text{arclg} \, \frac{s - (m - M)^2}{\sqrt{-k(s)}}\right]. \quad (14)$$

if $(m - M)^2 < s < (m + M)^2$. Thus the principal Regge trajectory can be obtained, taking into account linear terms in α which enables a description of the Coulomb interaction. There is 1 figure.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint
               Institute of Nuclear Research)

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Infrared peouliarities and Regge ...

SUBMITTED: November 16, 1962

Fig.
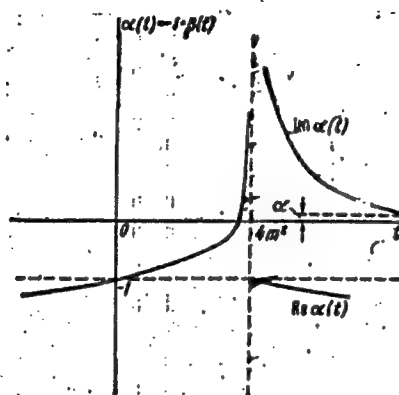
Card 4/4

ACCESSION NR: AP4025941   S/0056/64/046/003/1079/1089

AUTHOR: Logunov, A. A.; Nguyen, Van Kh'yeu; Todorov, I. T.;
Khrustalev, O. A.

TITLE: Asymptotic relations between cross sections in local field
theory

TOPIC TAGS: local field theory, cross section, asymptotic cross
section relations, Phragmen Lindelof theorem, Pomeranchuk theorem,
antiparticle, neutral pion scattering, kaon scattering, pion proton
scattering, kaon proton scattering

ABSTRACT: It is shown that, by starting from the Phragmen-Lindelof
theorem and using the general principles of relativistic local quan-
tum field theory, several asymptotic relations can be established

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ACCESSION NR: AP4025941

not only between the total cross sections of various processes but
also their differential cross sections. Starting with the related
processes of scattering of scalar particles

$$a_1 + b_1 \rightarrow a_2 + b_2 \qquad\qquad (I)$$

$$\bar{a}_2 + b_1 \rightarrow \bar{a}_1 + b_2 \qquad\qquad (II)$$

(the bar denotes the antiparticle), the asymptotic properties of the
scattering amplitude are derived under certain assumptions and, in
particular, the Pomeranchuk theorem is obtained for this case. The
method is then extended to include the case when the particles b have
spin 1/2 while the particles a have spin zero and to process which
are described in the e^2 approximation in terms of electromagnetic
form factors. All the deductions are based on the assumption that
the cross sections do not oscillate at high energies. It is con-

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ACCESSION NR: AP4025941

cluded that the differential cross sections of processes (I) and (II)
are asymptotically equal, that the total cross sections of interac-
tion of particles and antiparticles are equal if the forward elastic
scattering amplitude does not grow too rapidly, that the forward dif-
ferential scattering cross section is proportional to the square of
the total cross section in the case of scattering of neutral pions
or kaons by protons, and that the limiting values of the form factor
are equal when the momentum transfer (t) becomes infinite. "In con-
clusion the authors are deeply grateful to N. N. Bogolyubov for in-
terest in the work and for stimulating discussion, and also to S. M.
Bilen'kiy, D. I. Blokhintsev, V. S. Vladimirov, M. A. Markov, N. N.
Meyman, Kh. Ya. Khristov, and P. Suranyi for useful remarks." Orig.
art. has: 43 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint
Institute of Nuclear Research)

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ACCESSION NR: AP4031148   S/0056/64/046/004/1266/1280

AUTHORS: Arbuzov, B. A.; Logunov, A. A.; Filippov, A. T.; Khrusta-lev, O. A.

TITLE: The Fredholm method in the relativistic scattering problem

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1266-1280

TOPIC TAGS: particle scattering, relativistic particle, particle spin, Fredholm method, Regge pole, asymptotic property

ABSTRACT: The investigation of the analytic properties and asymptotic form of the amplitudes for elastic scattering of two spinless particles with equal masses, obtained from solutions found by the Fredholm method, are described. The motivation is to develop a method for studying the analytic properties of the scattering amplitude and its asymptotic behavior as a function of the cosine of the scattering angle in the c.m.s. directly, without assuming the exis-

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ACCESSION NR: AP4031148

tence of a Mandelstam representation. The problem is treated over
a restricted energy range but with arbitrary momentum transfer. The
scattering amplitude and the bound states of the particles are de-
scribed by a Schrodinger-type equation with a generalized complex
potential. The analytic properties of the scattering amplitude are
studied as a function of the complex energy (or momentum) and angular
momentum. The asymptotic form of the partial amplitude is found and
it is shown that a transition to the total amplitude is possible by
using the Watson-Sommerfeld transformation. The analyticity of the
total amplitude as a function of momentum transfer is demonstrated,
and conditions for the Regge asymptotic behavior at infinite momentum
or angular momentum are formulated. Some of the results which can
be gained from the investigation are discussed in the conclusion.
"The authors are sincerely grateful to Academician N. N. Bogolyubov
for stimulating discussions and also to O. I. Zav'yalov and M. K.
Polivanov for valuable information." Orig. art. has: 3 figures and
20 formulas.

Card 2/3

ACCESSION NR: AP4031148

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 20Jul63   DATE ACQ: 07May64   ENCL: 00

SUB CODE: NP   NR REF SOV: 008   OTHER: 011

Card   3/3

KHRUSTALEV, P.

"On American Airfields. Tr. from the Russian. (to be contd.)", P. 334,
(KRIDLA VLASTI, Vol. 4, No. 14, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1,
Jan. 1955, Uncl.

KHRUSTALEV, P.

"Polish Aircraft; the Zuch, Successor of the Junak", P. (3) of cover,
(KRIDLA VLASTI, Vol. 4, No. 17, Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955, Uncl.

LYUBIMOV, V.A., inzh.; Prinimali uchastiye: GULYAYEVA, R., laborant;
YEVDOKIMOVA, V., laborant; KHRUSTALEV, P., rabotnik; ZHUKOV,
V., rabotnik; CHUMAKOV, M., rabotnik

Automatic AT2-250-Sh loom for woolen fabrics. Nauch.-issl.
trudy TSNIIShersti no.17:76-85 '62.   (MIRA 17:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy
promyshlennosti (for Gulyayeva, Yevdokimova). 2. Shuyskiy
mashinostroitel'nyy zavod (for Chumakov).

AKIMOV, T. S., KHRUSTALEV. P. F.

LOOMS

Varied movement of the warp roller. Tekst. prom. 12 no. 7, 1952.

ZHAROVA, Ye.I.; PROTASOVA, T.G.; KHRUSTALEV, S.A.; PREOBRACHENSKAYA, M.N.;
SUVOROV, N.N.; RAUSHENBAKH, M.O.

Leukemogenic (blastomogenic) properties of some compounds of
the indole series. Report No.2. Probl. gemat. i perel. krovi.
no.6:38-42 '65.   (MIRA 18:11)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya
krovi (dir. - dotsent A.Ye.Kiselev) Ministerstva zdravookhraneniya
SSSR, i Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut (dir. - prof. M.K.Rubtsov), Moskva.

TSESSARSKAYA, T.P.; OSECHENSKAYA, G.V.; KHRUSTALEV, S.A.

Chromosome changes in leukemia. Report No.1: Chronic myeloid leukemia. Probl. gemat. i perel. krovi 9 no.1:3-10 Ja '64.
(MIRA 18:1)

1. Radiobiologicheskaya laboratoriya (zav. - prof. M.O. Raushenbakh) i gematologicheskaya klinika (zav. - prof. M.S. Dul'tsin) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (direktor - dotsent A.Ye. Kiselev).

TSESSARSKAYA, T.P.; OSECHENSKAYA, G.V.; KHRUSTALEV, S.A.

Chromosome changes in leukemia in man. Acute leukemia. Report
No.2. Probl. gemat. i perel. krovi 9 no.6:10-15 Je '64.
                                             (MIRA 18:2)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya
krovi (dir.- dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya
SSSR, Moskva.

KHRUSTALEV, S.A.

Karyological studies in mouse leukemias. Probl. gemat. i perel.
krovi 8 no.11:26-29 N '63.   (MIRA 17:12)

1. Iz radiobiologicheskoy laboratorii (zav.- prof. M.O. Raushenbakh)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dirketor dotsent A.Ye. Kiselev).

KHRUSTALEV, S. I., Cand Med Sci -- (diss) "Effect of preparations of darkening pasqueflower (Pulsatilla) upon the reflex activity of the organism." Dnepropetrovsk, 1957. 12 pp (Min of Health UkSSR, Dnepropetrovsk Med Inst), 200 copies (KL, 16-58, 124)

BATRAK, G.Ye., LINENKO,V.I., KHRUSTALEV, S.I.

Method for implanting electrodes. Fiziol.zhur. 44 no.10:1001-1003.
O '58   (MIRA 12:1)

1. From the department of pharmacology, Medical Institute,
Dnepropetrovsk.
              (PHYSIOLOGY,
                    implantation of electrodes (Rus))

BATRAK, G.Ye.; FURS, I.T.; KHRUSTALEV, S.I.

Pharmacological properties of Pulsatilla nigricans. Farm. i toks.. 22
no.4:320-324 Jl-Ag '59.   (MIRA 13:1)

1. Kafedra farmakologii (zav. - prof. G.Ye. Batrak) Dnepropetrovskogo
meditsinskogo instituta.
          (PLANTS, MEDICINAL pharmacol.)

KHRUSTALEV, S.I.

Comparative lability of neuromuscular synapses. Farm. i toks. 25
no.1:88-93 Ja-F '62.   (MIRA 15:4)

1. Kafedra farmakologii (zav. - prof. G. Ye.Batrak) Dnepropetrovskogo
meditsinskogo instituta.
                    (MUSCLES—INNERVATION)

KHRUSTALEV, S.I.

Lability of neuromuscular synapses of the gastrocnemius and diaphragm muscles in dogs in ontogenesis. Farm. i toks. 25 no.5:559-564 S-O '62   (MIRA 18:1.)

1. Kafedra farmakologii (zav. - doktor med. nauk prof. G. Ye. Batrak) Dnepropetrovskogo meditsinskogo instituta.

ACC NR: AP5017360   UR/0239/64/050/011/1364/1372

AUTHOR: Khrustalev, S. I.

TITLE: Comparative reactivity of nerve-muscle synapses in various animals

Fiziologicheskiy zhurnal SSSR, v. 50. no. 11, 1964, 1364-1372

TOPIC TAGS: experiment animal, nervous system, neurology, muscle physiology, electromyography

ABSTRACT: The lability of myoneural synapses of the calf muscle of dogs,
... frogs was determined by recording the electrical response of
... ation of currents ... sciatic
... at which the ... The
... in this manner ... experimental
... correlation between the ... relative
... larizing effect of diplacin ... three
... there was a definite ... resistance
... lability of differen ... the same
... nts was established by determining the action of diplacin on
synapses of the leg muscle and chest muscles of pigeons, which have a
different lability.   Orig. art. has 4 figures and 3 tables.

Card 1/2

L 58463-65
ACCESSION NR: AP5017360

ASSOCIATION: Kafedra farmakologii meditsinskogo instituta, Dnepropetrovsk
(Department of Pharmacology, Medical Institute)

SUBMITTED: 15Jul63

ENCL: 00

SUB CODE: LS

NO REF SOV: 009

OTHER: 000

JPRS

Card 2/2

KHRUSTALEV, S. S.

KREMLEV, V. P., Inzhener i KHRUSTALEV, S. S., Kand. Tekhn. nauk St. Nauchno. Sotr. i BOZHENOV, P. I., Kand. Tekhn. nauk i VASIL'KOVSKIY, S. V., Laureat Stalinskoy Premii Prof.
Leningradskiy filial Akademii arkhitektury SSSR.

PREDLOZHENIYA PO ISPOL'ZOVANIYU ESTESTVENNOGO GIPSOVOGO KAMNYA DLYA NARY-ZHNYKH OBLITSOVOK.

page 94

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

KHRUSTALEV, S.S.; RAYLYAN, V.F., professor, redaktor.

[Using gypseous stone for building facings] Primenenie gipsovogo kamnia dlie
otdelki zdanii. Pod red. V.F.Railiana. Leningrad, Gos.izd-vo lit-ry po
stroitel'stvu i arkhitekture, 1953. 41 p.   (MLRA 6:12)
                                      (Gypsum) (Façades)

KHRUSTALEV S S

AID P - 3738

Subject   : USSR/Chemistry

Card 1/1   Pub. 152 - 2/22

Authors   : Khrustalev, S. S., M. G. Voronkov, and B. N. Dolgov

Title   : Increase in the water resistance of native gypsum.
                Part II.

Periodical   : Zhur. prikl. khim. 28, 9, 916-921, 1955

Abstract   : By immersing gypsum (3 varieties) in ethyl silicate
                for several hours, the hydrophobic properties of gypsum
                were increased, one variety, 7-10 and two varieties 3
                times. By treating gypsum with methylchlorosilane, the
                hydrophobic properties of gypsum were increased 5-10
                times. Five tables, 8 references, 4 Russian (1943-1953).

Institution : None

Submitted   : O 21, 1953

KHRUSTALEV, Sergey Serapionovich; TSYGANOV, B.Ya., inzh., retsenzent;
LOMONOSOV, I.G., st. nauchn. sotr., retsenzent; SATIN, M.S.,
st. nauchn. sotr., otv. red.; BEZGODOVA, L.V., red.

[Building. Building materials; a textbook for students of the
faculties of Forestry Engineering, the Mechanical Technology
of Wood, Forest Management, Chemical Technology, and Engineer-
ing Economics] Stroitel'noe delo. Stroitel'nye materialy;
uchebnoe posobie dlia studentov fakul'teto lesoinzhenernogo,
mekhanicheskoi tekhnologii drevesiny, lesokhoziaistvennogo,
khimiko-tekhnologicheskogo, inzhenerno-ekonomicheskogo. Lenin-
grad, Vses. zaochnyi lesotekhn. in-t, 1964. 71 p.
                                                (MIRA 18:7)

L 01286-66   EWT(1)/EWT(m)/EPF(c)/EWP(j)/T/EWP(t)/EWP(b)/EWA(h)   IJP(c)/RPL
JD/WW/GS/AT RM

ACCESSION NR: AT5020453   UR/0000/64/000/000/0087/0104

AUTHOR: Krotova, N. A.; Sokolina, G. A.; Khrustalev, Yu. A.; Agranenko, N. P.;
Lomova, N. F.; Khomutov, A. M.

TITLE: Change in the surface state of germanium during the formation of an adhesion
bond with a polymer

SOURCE: Mezhvuzovskaya nauchno-tekhnicheskaya konferentsiya po fizike poluprovod-
nikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk, 1962. Poverkhnostnyye i
kontaktnyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semicon-
ductors). Tomsk, Izd-vo Tomskogo univ., 1964, 87-104

TOPIC TAGS: polymer, semiconductor research, protective coating, surface property,
crystal surface, lacquer/ LVS-31 lacquer, MBK-1 lacquer

ABSTRACT: The authors study the effect which the functional groups in a polymer
have on the surface state of germanium in connection with the use of organic polymer
materials for protecting semiconductor devices from atmospheric action. The field
effect method was used for experimentally studying the surface conductivity with the
application of a constant field. The slow changes in conductivity with time were

Card 1/6

L 01286-66

ACCESSION NR: AT5020453

6

recorded. The material studied was n-germanium with a resistivity of 40 $\Omega \cdot cm$ and a diffusion length of 2.5 mm. The specimen was a plate with dimensions of 20 x 5 x 5 mm cut from a single crystal of germanium parallel to plane (111). Ohmic contacts were fused to the ends of the specimen. The sample was etched in a peroxide-alkali mixture. The surface conductivity is shown as a function of time in fig. 1 of the Enclosure. Typical curves for conductivity in the field effect for high resistance n-germanium are given in fig. 2 of the Enclosure. These curves may be given as $\Delta\sigma = f(U)$ or as $\Delta\sigma = \phi(Q)$, if Q is the induced charge of a condenser determined from the capacity. Here $\Delta\sigma$ indicates the change in surface conductivity, and U gives the po-tential. Polymers of the vinyl series were studied with regard to the effect of the nature of functional groups and their concentration in the chain of a copolymer on the shape of $\Delta\sigma = \phi(Q)$ curves plotted from measurements in vacuum. The results are shown in fig. 3 of the Enclosure. Curves are also given for copolymers of methyl-methacrylate with methacrylic acid, for a gelatin-germanium interface (where the gelatin has functional radicals NH_2, OH and COOH) and for polyhydroxyethylene--a polymer which has no functional polar radicals and which has oxygen bound by single bonds in the chains. A comparison of the curves indicates that functional radicals change the position of $\Delta\sigma_{min}$ noticeably, while polymers without strongly polar groups have little effect on this parameter. Compositions of polymers were studied

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L 01286-66
ACCESSION NR: AT5020453

along with individual polymers. It was found that two industrial lacquers, MBK-1
and LVS-31, offer more protection against moisture than do the individual polymers.
However, the lacquer films are much thicker than the individual polymer films. It
is shown that LVS-31 has a few advantages over MBK-1 as a protective film for semi-
conductor devices. Orig. art. has: 13 figures, 6 tables.

ASSOCIATION: none

SUBMITTED: 06Oct64   ENCL: 03   SUB CODE: SS, MT

NO REF SOV: 006   OTHER: 005
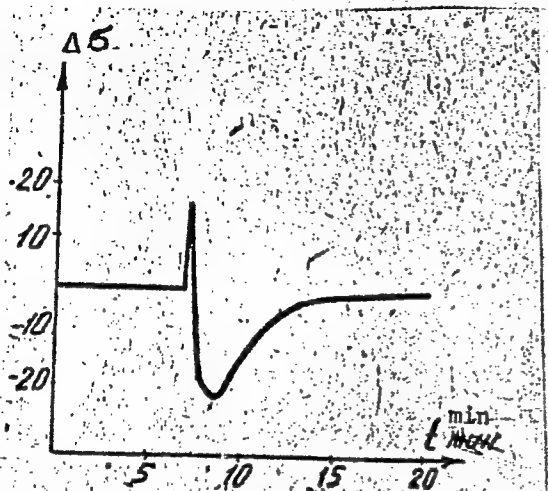
Card 3/6

L 01286-66
ACCESSION NR: AT5020453

Fig. 1. Change in surface conductivity with time
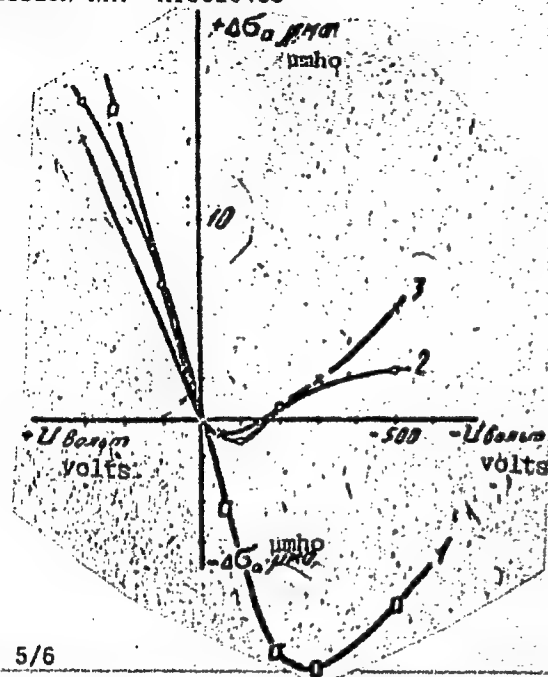
Card 4/6

L 01286-66

Fig. 2. $\Delta\sigma$ in field effect for high-resistance n-germanium

Card 5/6

44546

S/020/62/147/006/031/034
B144/B186

247750

AUTHORS: Sokolina, G. A., Krotova, N. A., Khrustalev, Yu. A.

TITLE: Study of the properties of a polymer-semiconductor interface

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962, 1409 - 1412

TEXT: The adsorption process occurring at polymer-semiconductor inter-
faces was investigated by measuring the surface conductivity in the "field
effect". The sample used was n-type germanium with a resistivity of
40 ohm·cm and a diffusion length of 2.5 mm etched in a H_2O_2-alkali mixture
and coated with films of linear vinyl-type polymers or methylmethacrylate-
methacrylic acid copolymers. The field applied had a strength of 10^6 v/cm.
First, the surface conductivity was measured in a sample of uncoated Ge:
here the $\Delta\sigma$-versus-time curve showed a sharp rise when the field was
applied, followed quickly by the minimum and returning then to the initial
value. On Ge, two surface states were observed: the "fast" states at the
Ge oxide - Ge interface and the "slow" states at the external face of the
oxide or in the oxide. These slow surface states characterizing the ad-
sorption and adhesion processes were studied by applying a constant
Card 1/2

Study of the properties of a ...

S/020/62/147/006/031/034
B144/B186

voltage. Control studies of the semiconductor-air interface revealed the positive charge of the surface. The effect of the polymer films on the surface conductivity depended on the nature and concentration of the functional groups. An increase in the concentration of the COOH groups, which are electron-donors, changed the amount and the sign of the bending of the bands and also the quantity and the sign of the charge resulting from the adhesion bond between semiconductor and polymer. The experimental data were compared with those calculated from known theories. The importance of these investigations for the coating of semiconductors is stressed. There are 4 figures.

ASSOCIATION: Institut fizioheskoy khimii Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

PRESENTED: July 19, 1962, by P. A. Rebinder, Academician

SUBMITTED: July 16, 1962

Card 2/2

DEMIN, V.M.; KHRUSTALEV, Yu.P.

Some characteristics of the early history of the Sea of Azov.
Okeanologiia 4 no.5:850-855 '64   (MIRA 18:1)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

L 44323-66   EWT(1)   GW

ACC NR: AP6020984   (N)   SOURCE CODE: UR/0213/66/006/003/0451/0457

AUTHOR: Mamykina, V. A.; Khrustalev, Yu. P.

ORG: none

TITLE: Processes of abrasion and deposition in recent sedimentation, using the Sea of Azov as an example

SOURCE: Okeanologiya, v. 6, no. 3, 1966, 451-457.

TOPIC TAGS: physical oceanography, oceanic sedimentation, oceanic deposit, bottom deposit, shoreline erosion, bottom erosion

ABSTRACT: Two organizations, the Rostov-on-Don State University (1959-1963) and the Institute of Oceanography, AS USSR (1939-1961) have investigated core samples taken from the bottom sediments of the Sea of Azov. The thicknesses, grain-size, and composition of the most recent and contemporary deposits were analyzed specifically to determine rates and locations of erosion and deposition. Results obtained were compared with information obtained from bathymetric charts of the area, which incorporated information collected during the 1803-1956 period. Rates of recent epeirogenic movements were determined by geological and geomorphological methods and were checked against repeated leveling measurements. The area was divided into three characteristic regions:

Card   1/2   UDC: 551.351(262.56)

Card 2/2   UDC

L   18834-66   EWT(1)   GW

ACC NR: AP6004393   (N)   SOURCE CODE: UR/0020/66/166/003/0688/0690

AUTHOR: Panov, D. G.; Khrustalev, Yu. P.

ORG: none

TITLE: Recent tectonic movements in the coast line and floor of the Sea of Azov

SOURCE: AN SSSR. Doklady, v. 166, no. 3, 1966, 688-690

TOPIC TAGS: tectonics, ocean floor topography

ABSTRACT: The literature on tectonic movements in the Azov area is reviewed and
the following conclusions are presented: (1) the sinking of the coast line and the
littoral portions of the floor belong to the last stage of the Quaternary; (2) this
sinking has been taking place over the last 5000 years; (3) the sinking of the
coast line and the Azov basin floor is recent; (4) the greatest part of the Tagan-
rog Bay area and the northern part of the Sea of Azov to the west of it, are sub-
ject to movements at a rate of 2 to 3 mm per year; (5) the speed of the tectonic
movement decreases to 1 to 2 mm per year along the coastal strip of the Taganrog
Bay and near the northern sea coast; (6) the largest recent movements, up to 3 mm

UDC: 551.24(471.6)

Card 1/2

L 18834-66

ACC NR: AP6004393

per year, predominate in the southern part of the sea; (7) the area of recent sink-
ing in the Sea of Azov corresponds tectonically to the Kerch-Taman' pereclinal,
alpine folding; and (8) the speed of recent tectonic movement in the Azov region in-
dicates a significant tectonic factor in the development of the Sea of Azov during
the Quaternary period. A detailed map of recent tectonic movements in the Azov bas-
in is given. Presented by Academician I. P. Gerasimov on 31 July 1965. Orig. art.
has: 1 figure.

SUB CODE: 08/   SUBM DATE: 31Jul65/   ORIG REF: 007/   OTH REF: 000

Card 2/2   vmb

KHRUSTALEVA, A.D. (Moscow).

Role of the nurse in caring for cancer patients in the hospital
and at home. Med.sestra no.1:20-22 Ja '54.   (MLRA 7:1)

1. Meditsinskaya sestra gorodskoy bol'nitsy No.34.
                    (Cancer) (Nurses and nursing)

BABAK, V.S., ZALOZH, F.K., KHRUSTALEVA, F. YE.

Viticulture - Izmail Province

Our methods of caring for wineyards.Vin. SSSR no. 4, 1952

S/189/61/000/006/005/005
D228/D304

AUTHORS: Dunayeva, K.M., Ippolitova, Ye.A. and Khrustaleva, G.D.

TITLE: Investigating the thermal stability of uranyl sulfate

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II, khimiya, no. 6, 1961, 35-37

TEXT: In studying the thermal decomposition of uranyl sulfate the authors were primarily interested in ascertaining the temperature of dissociation of the anhydrous salt. The trihydrate was prepared by dissolving U_3O_8 in a solution of H_2SO_4 at 80° and evaporating the filtrate, when crystals containing 56.95% U and 8.04% S were obtained. On heating the $UO_2SO_4 \cdot 3H_2O$ the following changes were observed: the loss of 1 1/2 molecules

Card 1/2

KHRUSTALEVA, G.F.

Country : USSR   T

Category: Human and Animal Physiology. Nervous System.
          Cerebral Cortex

Abs Jour: RZhBiol., No 19, 1958, 89199

Author : Khrustaleva, G.F.
Inst   : -
Title   : Changes in the Electroencephalogram of the Female
          Rabbit Under the Effect of Progestrone, Folliculin
          and Following Castration

                                                      43

Orig Pub: Dyul. Eksperim. biol i meditsiny, 1957, No 1,
          Appendix, 126-129.

Abstract: The administration to female rabbits of progesterone
          (I-20 mgs of an oil solution) caused the appearance
          in the EEG of slow waves and a decrease of motor

Card   : 1/2   *Lab Normal + Pathological Physiology*
                  Inst. Obstetrics + Gynecology AMS USSR

                       T-88

KHRUSTALEVA, G.F.

Detection of anovulatory cycles by means of some function
tests. Akush. i gin. no.1:44-48 '63.   (MIRA 17:6)

1. Iz otdeleniya neoperativnoy ginekologii (zav. - prof. Ye.P.
Mayzel') Instituta akusherstva i ginekologii (dir. - prof. M.A.
Petrov-Maslakov) AMN SSSR.

KHRUSTALEVA, I. V.

Country	: USSR
Category	: Farm Animals. General Problems.
Abs. Jour	: Ref Zhur-Biol., No 16, 1956, 73963
Author	: Khrustaleva, I. V.
Institut.	: Moscow Veterinary Academy.
Title	: Arterial Vessels of the Bicipital Shoulder Muscle in Domestic Animals.
Orig Pub.	: Tr. Mosk. vet. akad., 1956, 10, 261-279

Q-1

Abstract   : In 23 horses, 18 heads of cattle, 10 pigs, and
              14 dogs the bicipital muscle of the shoulder
              was investigated. It was established that the
              proximal sector of the muscle under investiga-
              tion is less intensively supplied by the peri-
              muscular medial shoulder artery than the distal
              sector which is vascularized by the arteries of
              the bicipital shoulder muscle. The arteries of
              the bicipital muscle in horses and dogs are re-
              latively wider in diameter and shorter in length.

Card: 1/4

GUSEVA, L.A.; ZDANOVSKAYA, Ya.L.; KRIVOSHEINA, N.A.; KHRUSTALEVA, I.V.;
CHEBOTAREV, I.T.; DREVLYANSKAYA, N.I., red.; PROKOF'YEVA, L.N.,
tekhn. red.

[Manual for laboratory work in the anatomy of farm animals] Po-
sobie k prakticheskim zaniatiiam po anatomii sel'skokhoziaistven-
nykh zhivotnykh. Moskva, Sel'khozizdat, 1962. 170 p.

(MIRA 15:7)

(Veterinary anatomy)

KHRUSTALEVA, L.A.

    Characteristics of salmonelloses in Perm. Zhur. mikrobiol., epid. i
    immun. 41 no.11:122-125 '65.   (MIRA 18:5)

    1. Permskiy institut vaktsin i syvorotok.

MIRSKOVA, V.N.; GITTERMAN, L.A.; KHRUSTALEVA, L.A.; KALUGINA, L.V.

Bacterial pollution and pyrogenicity of diaferm-3 sera. Nauch. osn.
proizv. bakt. prep. 10:206-212 '61.   (MIRA 18:7)

1. Permskiy institut vaktsin i syvorotok.

Method for obtaining polyester plasticizers for polyvinylchloride composi-

... khratonly i tovarnykh ...

polyvinylchloride, polyester

NO REF SOV: 000   OTHER: 000
Card 1/1

ICHKIN, Petr Afanas'yevich, prof., MELENTEV, Nikolay
Alek androvich, prof.; DAREVSKIY, Aleksandr Iosifovich,
dots.; KUKHARKIN, Yevgeniy Stepanovich, dots.;
KHRUSTALEVA, N.I., red.

[Theoretical principles of electrical engineering] Teore-
ticheskie osnovy elektrotekhniki. Moskva, Vysshaia shkola,
Pt.1. 1965. 333 p.   (MIRA 18:12)

STEPIN, Petr Andreyevich; KHRUSTALEVA, N.I., red.; STOLYAROVA, M.T.,
tekhn.red.

[Strength of materials] Soprotivlenie materialov. Moskva,
Gos.izd-vo "Vysshaia shkola," 1960. 366 p.

(MIRA 14:4)

(Strength of materials)

BELYAVSK1Y, Samuil Moiseyevich; KHRUSTALEVA, N.I., red.

[Manual for the solution of problems on the strength of
materials] Rukovodstvo k resheniiu zadach po soprotivle-
niiu materialov. Moskva, Vysshaia shkola, 1964. 315 p.
(MIRA 17:8)

VENIKOV, Valentin Andreyevich; LITKENS, Irina Vladimirovna.
     Prinimali uchastiye SOLDATKINA, L.A., dots.; VASIN, V.P.,
     inzh.; KHRUSTALEVA, N.I., red.

     [Mathematical principles of the theory of automatic control
     of the operation of electrical systems] Matematicheskie os-
     novy teorii avtomaticheskogo upravleniia rezhimami elektro-
     sistem. Moskva, Vysshaia shkola," 1964.   201 p.
                                              (MIRA 17:4)

OVCHARENKO, Nikolay Il'ich; KHRUSTALEVA, N.I., red.; GOROKHOVA, S.S.,
tekhn. red.

[Galvanomagnetic effects in semiconductors and their
technological uses] Gal'vanomagnitnye iavleniia v polu-
provodnikakh i ikh tekhnicheskoe ispol'zovanie. Moskva,
Gos. izd-vo "Vysshaia shkola," 1961. 99 p.   (MIRA 15:4)
(Semiconductors)   (Hall effect)

SAPOZHNIKOV, Rostislav Alekseyevich; BESSONOV, Aleksandr
Andreyevich; SHOLOMITSKIY, Adrian Grigor'yevich;
TEMNIKOV, F.Ye., prof., retsenzent; TIMOFEYEV, V.A.,
prof., retsenzent; SVECHINSKIY, V.B., retsenzent;
IVANOV, A.Z., retsenzent; KHRUSTALEVA, N.I., red.

[Reliability of automatic control systems] Nadezhnost'
avtomaticheskikh upravliaiushchikh sistem. Moskva,
Vysshaia shkola, 1964. 263 p. (MIRA 17:12)

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